50-341

Detroit Edison

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EF2-55873

Mr. James G. Keppler, Director
Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Subject: Final Report of 10CFR50.55(e) Item on Transversing In-Core Probe System Problem (#36)

Dear Mr. Keppler:

This is Detroit Edison's final report on the Transversing In-Core Probe System problem. The problem was originally reported to Mr. R. Knop of NRC-Region III by Detroit Edison's Mr. H.A. Walker, Supervisor - Construction Quality Assurance, on December 29, 1980.

At that time, Engineering investigation indicated that the transversing in-core probe instrument tubing was possibly deficient. This determination was made by Project Design and Field Engineering while doing a design analysis of the thermal movements associated with the primary containment liner during a loss of coolant accident (LOCA). The Detroit Edison Engineering Research Department mocked up the existing design, and performed tests based on the thermal movement associated with a LOCA.

The results of these tests led Edison Design Engineering to conclude that the present design of TIP guide tubes and their support is satisfactory, and will withstand the EF2 design basis accident without compromising safety. (Three tubes passed the test with no leak, and one tube leaked at the flare joint at ½-inch displacement; the leak was extremely small. No tubing wall failures were experienced.)

If you have questions concerning this matter, please contact Mr. H.A. Walker, Supervisor - Construction Quality Assurance.

Very truly yours,

D.A. Wells

DAW/HAW/pn
cc: Mr. Victor Stello, Jr., Director
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